

ITO-220AB

Guard Ring for Over Voltage Protection

High Forward Surge Capability

High Frequency Operation

Features



Schottky Barrier Rectifiers

Primary Characteristics

I _F	20	А
V _{RRM}	20~200	V
I _{FSM}	150	А
I _F =10A @ V _F	0.55, 0.75, 0.85, 0.92	V
T _J max	_J max 125, 150	

Mechanical Data

- Case : ITO-220AB
- Case Material : Molded Plastic, UL Flammability Classification Rating 94V-0
- Terminals : Matte Tin Finish Annealed Over Copper Lead frame. Solderable per MIL-STD-202

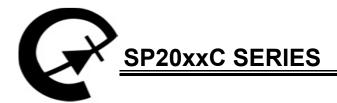
Ordering Information							
Part No.	Remark	Package	Packing				
SP20xxC	RoHS Compliant	ITO-220AB	50 / Tube				
SP20xxC-H	Halogen Free	110-220AB					

Maximum Ratings (TA=25°C unless otherwise noted)

Parameter	Symbol	SP20 20C	SP20 30C	SP20 40C	SP20 45C	SP20 50C	SP20 60C	SP20 80C	SP20 100C	SP20 150C	SP20 200C	Unit
Maximum Repetitive Peak Reverse Voltage		20	30	40	45	50	60	80	100	150	200	V
Maximum RMS Voltage		14	21	28	31.5	35	42	56	70	105	140	V
Maximum DC Blocking Voltage		20	30	40	45	50	60	80	100	150	200	V
Maximum Average Forward Rectified Current (Total) (Per Leg)	I _F	20 10							A			
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I _{FSM}	150								А		
Maximum Instantaneous Forward Voltage IF=10A @ 25°C	V _F	0.55			0.75		0.85		0.92		V	
Maximum DC Reverse Current @ T _J =25°C at Rated DC Blocking Voltage @ T _J =100°C	I _R	0.5 0.2 30 10							mA			
Typical Junction Capacitance (NOTE1)	CJ	440 355 245 175					175	140	pF			
Typical Thermal Resistance	$R_{ extsf{ heta}JC}$	3								°C/W		
Operating Temperature Range	TJ	-55 to +125 -55 to +150							°C			
Storage Temperature Range	T _{STG}	-55 to +150								°C		
Marking Code		SP20 20C	SP20 30C	SP20 40C	SP20 45C	SP20 50C	SP20 60C	SP20 80C	SP20 100C	SP20 150C	SP20 200C	

NOTES :

1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.



RoHS

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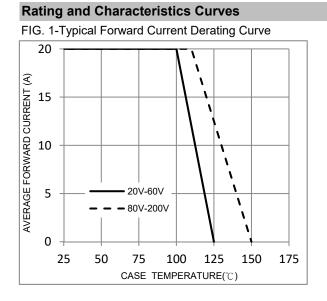


FIG. 3-Maximum Non-Repetitive Forward Surge Current

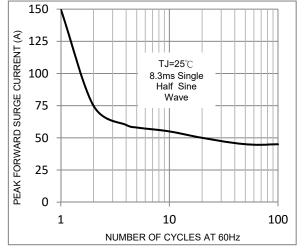
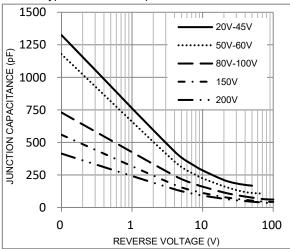


FIG. 5-Typical Junction Capacitance



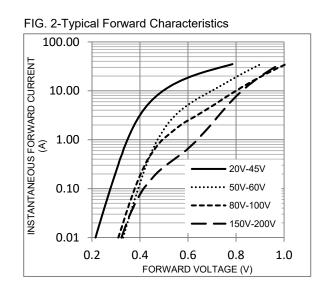
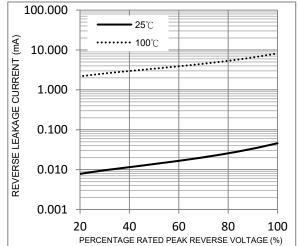
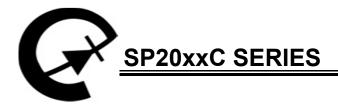


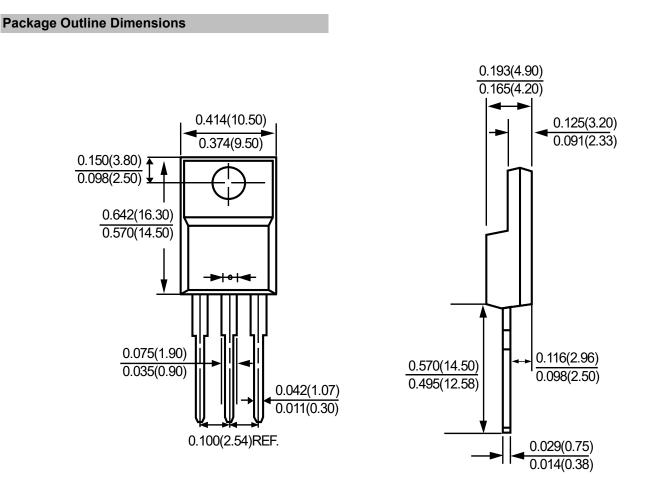
FIG. 4-Typical Reverse Characteristics





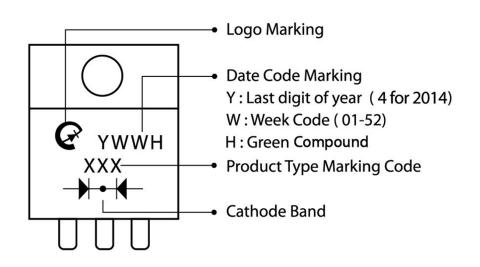
Pb RoHS

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ITO-220AB Dimensions in inches and (millimeters)

Marking Information







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